

Fixing Our Streets Project Status Dashboard - October 31, 2019

PROJECT BUNDLES									
	BUNDLE DESCRIPTION	TOTAL NUMBER OF PROJECTS	NUMBER OF PROJECTS COMPLETED	NUMBER OF PROJECTS IN CONSTRUCTION	PROJECTS GOING TO CONSTRUCTION WITHIN 90 DAYS	PROJECTS GOING TO CONSTRUCTION 90+ DAYS	NOTES		
	ADA Priority Ramps	27	7	2	10	0			
	ADA Friority Kamps	21	14	3	10	0			
	Freight Priority Projects	3	3 4	0	0	0			
	Safe Routes To Schools	82	2 40	8	18	16	Note: 10 High School Clusters		
	Guardrails	19	17	0	2	0			
	Oddi di diis	T.C.	17	Ü	2	0			
	Bridge Column Attenuators	24	24	0	0	0			
							Additional projects identified		
							according to available funding. Reconciliation of spending in		
	Base Repair	~400	372	0	TBD	TBD	progress		
PROJECT CATEGORIES - BY									
							Pedestrian safety improvements		
			Crossing Improvements not on				including modified median island, three curb corner replacements and		Pedestrian
	T00897	MLK Jr Blvd at Sumner St, NE	list	Sheila Parrott	10.08.2019	12.31.2019	crosswalk markings.	Construction	Improvements
							Pedestrian safety improvements		
			Crossing Improvements not on				including a median island modification, curb ramp		Pedestrian
	T00898	MLK Jr Blvd at Graham St, NE		Sheila Parrott	10.08.2019		replacements and one tree removal.	Construction	Improvements
								Illumination work has started. Striping phase	
	T00626	Crossing at NE 122nd / Davis	Crossing Improvements	Winston Sandino	TBD		Combined with T00646	at 30% Design	Crossing Improvements
							Podostrian arassing improvements	Reverted to 95% design to account for incorporation of full signal. Plans will be re-	
	T00635	Safer Access to Bus Shelters	Crossing Improvements	Sheila Parrott	05.12.2020		Pedestrian crossing improvements - medians, curb ramps & RFBs	worked and schedule adjusted.	Crossing Improvements

		Bridge Column Safety	HVUT Safety	Christopher Sun	04.03.2018	07.14.2020	Opportunistic installation by Maintenance Operations. 24 locations total. Installation is a winter/rainy season activity.	Heavy Vehicle Safety
	T00692	Guard Rail Replacement	HVUT Safety	Christopher Sun	04.03.2018	07.14.2020	Complete	Heavy Vehicle Safety
	T00000	Cuard Pail Parties	LIVILIT Cofet	Christoph	04.00.0040	07.44.0000	Commission	Hanny Validate O. C.
	T00459	Columbia Blvd ITS N/NE	HVUT Safety	Willie Rotich		The project will construct and implement Infrastructure Technolog Services (ITS) infrastructure along N/NE Columbia Boulevard. The project will install equipment and integrate these devices with the City's, ODOT's, and Tri-Met's Transportation	Installation has started and will continue through July 2020.	Heavy Vehicle Safety
Primary Attribute: He			- · ·9	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	33.11.2010	ggom mostato to 500 Cast		
	T00676	Going St: Interstate Blvd - I-5 Ramp, N	HVUT Paving	Norberto Adre	09.17.2018	Pavement repair, grind & overlay, and ADA ramp improvements along 01.04.2019 N Going from intestate to 500' east	Complete	Heavy Vehicle Maintenance
	T00675	N Lombard Street (Ramsey to 2500' North	HVUT Paving	Norberto Adre	06.19.2018	3 inch grind and overlay paving of Marine Dr starting at Kelly Point Park and extending to Leadbetter Rd, as well as upgraded ADA ramp 01.04.2019 for all curbs within the paving area.	s	Heavy Vehicle Maintenance
	T00386	N Burgard Rd (Terminal to Columbia Road)	HVUT Maintenance	Winston Sandino	02.03.17	This project will widen the existing roadway and include two 12-foot travel lanes, one 14-foot left turn lane with two left turn pockets on to accommodate truck turning movements onto northbound N Tim Oil Rd and into the NW Container Services site. Combined with (federal) Burgard/Time Oil Road 06.06.19		Heavy Vehicle Maintenance
	T00617	N Columbia Boulevard (Interstate to 13th)	HVUT Maintenance	Winston Sandino		Paving and corner ramp construction	Complete	Heavy Vehicle Maintenance
	T00674	Marine Dr: Kelly Pt Park to Leadbetter, N	HVUT Paving	Norberto Adre	08.27.2018	3 inch grind and overlay paving of N Marine Dr starting at Kelly Point Park and extending to Leadbetter Rd, as well as upgraded ADA ramp 01.04.2019 for all curbs within the paving area.	s	Heavy Vehicle Maintenance
Primary Attribute: He	eavy Vehicle Maintenance							
	T00643	US 30 Xing Enhance (Linnton), NW	Crossing Improvements	Dan Layden			Oversight Committee Action - Cancel and Reallocate Funding	Crossing Improvement
	T00885	52nd at Killingsworth, NE	Crossing Improvements not on list		11.19.2019	Curb extension (or floating island) 01.06.2020 and larger median.	60% Design. First utility notification has	Crossing Improvement
	T00637	Southwest in Motion Xing Priorities, SW	Crossing Improvements	Dan Layden	12.01.2019	04.01.2019	Phase I - work orders submitted to MO for construction. Phase II - 30% - Civil Design is working on curb ramp designs and Signals & Streetlighting for lighting changes	Crossing Improvement

T00774	Freight Priority Program		Geren Shankar	04.1.2019	Freight improvements, includ traffic calming, pavement ma and signage. Addition of bicyc signal, improving bus operati Addition of two floating transi islands. Striping, pavement 02.20.2020 markings. Protected bicycle I	kings, le-only ons. 8 total projects: 4 completed; 4 in	Heavy Vehicle Safety
					Reviewing design alternative developed by Engineering Te Working with Port of Portland	am. to	
T00746	33rd & Marine Dr, NE	HVUT Safety	Winston Sandino	03.20.2020	06.15.2020 address larger systemic need	s. 15% Design	Heavy Vehicle Safety
Primary Attribute: High Crash Corridor							
T00561	SW Beaverton-Hillsdale Hwy: crossing improvements	High Crash Corridor	Sheila Parrott	07.13.2019	09.09.2019 Crossing improvements	Construction. Combined with T00568 and T00570.	High Crash Corridor
T00568	Sandy at 31st & Glisan at 87th, NE	High Crash Corridor	Sheila Parrott	07.13.2019	RFBs, ADA compliant curb ra	mps & Construction. Combined with T00561 and T00570	High Crash Corridor
T00570	Beaverton Hillsdale Hwy: 30th-39th, SW	High Crash Corridor	Sheila Parrott	07.13.2019	Buffered bike/ped space, me 09.09.2019 island and RFBs at 35th	dian Construction. Combined with T00561 and T00568	High Crash Corridor
T00624	82nd Ave Crossing Improvements, SE/NE	High Crash Corridor	Winston Sandino	04.23.2020	07.20.2020	crossings. Official approval from ODOT HQ (Salem) will take between 4-6 months. Working with ODOT officials to accelerate review and acceptance.	High Crash Corridor
T00633	SE Powell Blvd: Improve Street Lighting I-205 to the City limits	High Crash Corridor	Dan Layden			Oversight Committee Action - Cancel and Reallocate Funding	Crossing Improvements
T00648	ODOT Partnership: match safety	High Croph Corridor	Stove Stigethy			Current Allocations: Capitol Hwy: Huber to Taylors Ferry, SW - \$55,144; Powell & 130th,	Lligh Crook Corridor
Primary Attribute: Neighborhood Green	grants	High Crash Corridor	Steve Szigethy			SE - \$47,000; 108th & Sandy - \$100,000	High Crash Corridor
T00632	Montavilla-Springwater Connector, SE/NE	Neighborhood Greenway	David Backes	02.01.2020		and a prepare and submit bid package between November and January. Dependent on	Neighborhood Greenway
T00644	4M Greenway: 130th-174th, SE		Nicole Peirce	07.27.2020	Fixing Our Streets - Neighbor Greenways - 4M Greenway: 04.05.2021 147th, SE	30% plans to be circulated on 12/2/19. Will review budget after receipt of 30% plans.	
T00645	NW 20th Ave Neighborhood Greenway Phase 1: Flanders- Raleigh	Neighborhood Greenway	Scott Cohen	05.29.2018	Fixing Our Streets - Neighbor Greenways20th Bike: Jeffers 11.01.2019 Raleigh, NW	Phase I - Construction/Design; Phase II - Awaiting work order approval. MO will construct projects	Neighborhood Greenway

	T00623	NE 7th/9th from Lloyd to Woodlawn Neighborhood	Neighborhood Greenway	Nicole Peirce	07.13.2020	01.20.2021			Neighborhood Greenway
	T00647	HOP Greenway: Gateway TC-	Najahharhaad Gaaarusi	Nicela Daivas	00.45.2040	1	Neighborhood greenway treatments (speed bumps, sharrows, wayfinding) and/or bike lanes on NE Holladay, Oregon and Pacific		Neighborhood
Primary Attribute: Pavid		132nd, NE	Neighborhood Greenway	Nicole Peirce	09.15.2019	02.15.2020	Streets	Construction	Greenway
						(grind and overlay paving of NE Halsey between 102nd Avenue and Weidler, as well as upgraded ADA ramps for all curbs within the paving		
	T00456	Halsey Streetscape: 103rd - 113th, NE	Paving	Liz Tillstrom	09.04.2018		area. This Fixing Our Streets paving project has been combined with the	Substantially Complete	Paving
						, , , ,	Addresses issues of pavement maintenance, SW Vermont from SW 30th Ave to the Portland city imit near SW 65th Ave was repaved. Any ramps that were not up to current ADA standards were		
	T00588	Vermont St: Capitol-Oleson, SW	Paving	Norberto Adre	07.30.2018	11.27.2018	upgraded	Complete	Paving
							n order to address current bavement maintenance needs, SE 50th Avenue was repaved from SE Division to SE Hawthorne. All corners that did not meet ADA		
	T00590	50th Ave: Division-Hawthorne, SE	Paving	Norberto Adre	03.19.2018	10.08.2018	standards were updated	Complete	Paving
	T00592	Main: 1st - 2nd, SW	Paving	Norberto Adre		;	Rebuild the pavement on SW Main St from the intersection with First Avenue to the intersection at Second Ave	Complete	Paving
	T00586	Capitol Hwy: Multnomah-Texas, SW	Paving	Norberto Adre	08.01.19	\$ \ \ 	Multnomah Blvd. to SW Texas St. Work also includes installing sidewalk, upgrading corner ramps to meet ADA guidelines, and adding	Construction Paused - The decision was made to pause construction on SW Capital Hwy to ensure that businesses were able to be fully operational during the holiday shopping season. Work will resume in February 2020.	Paving
	T00583	Denver Ave: Lombard St - Watts		Geren Shankar	09.03.19	9	Pavement Rehabilitation includes grinding, overlay, base repair, ADA Ramps, Crossing improvement and	Construction - if construction is not complete by November 19, we will pause work and resume after Thanksgiving holiday	Protected Bike Lanes
	TX0010	Base Repair (Citywide)	Paving	Linda Goheen	ongoing	1 		372 Base Repair projects completed to	Paving

	T00594	42nd Ave & Wisteria Dr, NE	Paving	Norberto Adre	03.01.2020		upgraded ADA ramps for all curbs	Construction delayed to Spring 2020. Will be delivered through JOC - Job Order Contracting construction procurement mechanism	Paving
	T00584	Williams: Stanton to Cook, N		Norberto Adre / Geren Shankar / Briana Orr	09.30.19	12.31.19	FOS Pavement rehabilitation Project	Construction	Paving
	T00585	4th Ave: Lincoln - Burnside, SW		Gabriel Graff	03.19.2020		This project will reconstruct and repave SW 4th Avenue from SW Lincoln to SW Ankeny. A left-running protected bikeway and new signalized pedestrian crossings will	Continuing to evaluate design alternatives. Task order has been issued to design	Paving
	T00589			Timur Ender	04.18.2020		Sidewalk infill, paving, and bicycle facilities on SE 136th between		Paving
	T00591	Naito Pkwy: Harrison - Jefferson,		Norberto Adre / Gabriel Graff	02.19.2020		Street Improvement includes street reconstruction, grinding, overlay, two way separated bike path, ADA Ramps, crossing improvement, signals and streelighting, drainage		Paving
		Foster Rd: 50th Ave - 92nd Ave,					Safety and Streetscape		
	T00382	SE	Ğ	Dan Layden	06.18.2018	06.17.2019	Improvements This project will reconstruct and repave SW 4th Avenue from SW Lincoln to SW Ankeny. A left-running protected bikeway and new signalized pedestrian crossings will be installed and ADA corner ramps		Safety
	T00593	Alberta St: 15th - 30th, NE	Paving	Lisa Patterson	04.03.2020	10.22.2020	will be upgraded.	30% Design	Paving
Primary Attribute: Prote	ected Bike Lanes								
	T00636	Southwest in Motion Bike Lanes, SW	Protected Bike Lanes	Liz Rickles	08.01.2019		Bikelanes on 35th and 45th	Outreach complete for SW 45th bike lane striping, work orders in progress, construction will take place with MO pabing project in October 2019. Design and outreach in progress for SW 35th bike lanes	Protected Bike Lanes

Primary Attribute: Safe	T00414 Routes to School	Central City Multi-Modal Safety Projects	Protected Bike Lanes money given to Naito	Gabriel Graff	03.06.2020	This project will identify and implement specific projects in Central City to improve bicycle and pedestrian safety and encourage greater use of active transportation and transit in the downtown core. The project is funded through Regional Flexible Funds.	Construction - Coordinating MO projects. Six projects will be in construction between Fall 2019 and Summer 2020 - Everett bus lane install compete. Burnside Bridge bus lane install complete	Protected Bike Lanes
	T00600	David Douglas SRTS SE		Sheila Parrott		Pedestrian crossing improvements - medians, curb ramps, crosswalks, sidewalks, RFBs, etc	Various Stages (Design to Const)	Safe Routes to School
		Holgate Blvd: 112th-117th, SE				Construct sidewalk, fill gaps on SE Holgate between 112th & 117th	In Design (JOC will construct)	Safe Routes to School
	T00701	Franklin HS - SRTS SE Holgate at SE 65th		Sheila Parrott		Pedestrian crossing improvements - medians, curb ramps, crosswalks, sidewalks, RFBs, etc Curb ramp and crosswalks	Various Stages (Design to Const) Complete	Safe Routes to School Safe Routes to School
		SE Steele between 89th and 91st				Construct sidewalk	Complete	Safe Routes to School
		SE Harold at 101st				Update crosswalk, reduce speed	Complete	Safe Routes to School
		Springwater Corridor at SE 92nd Ave				Upgrade existing median, signing and striping	Construction	Safe Routes to School
		Steele St: 92nd - I-205 path, SE				Sidewalk infill	In Design	Safe Routes to School
		92nd at Crystal Springs Blvd, SE				Median island and ADA compliant curb ramps on SE 92nd at Crystal Springs Blvd	In Design	Safe Routes to School
	T00628	Wilson HS - SRTS, SW		Sheila Parrott		Pedestrian crossing improvements - medians, curb ramps, crosswalks, sidewalks, RFBs, etc	Various Stages (Design to Const.)	Safe Routes to School
		SW Capitol Hwy at SW Huber				Hi visibility markings	Complete	Safe Routes to School
		SW Capitol Hwy at SW Pomona				Update crosswalk to high visibility	Complete	Safe Routes to School
		Spring Garden: 20th - Taylors Ferry, SW			05.14.2019	Speed cushions on SW Spring Garden between 20th and Taylors Ferry	Complete	Safe Routes to School
		17th: Spring Garden to			0311112010	Speed bumps on SW 17th between		Safe Routes to School
		Taylors Ferry, SW Huber at 40th, SW				Spring Garden and Taylors Ferry Speed cushions on SW Huber	Complete Complete	Safe Routes to School
		Carson: 17th - 14th, SW				Sidewalk infill on SW Carson between 17th & 14th	In Design	Safe Routes to School
	T00702	Roosevelt/Jefferson HS -SRTS		Sheila Parrott		Pedestrian crossing improvements - medians, curb ramps, crosswalks, sidewalks, RFBs, etc	Various Stages (Design to Const.)	Safe Routes to School
	100702	NE MLK Jr. Blvd at NE Buffalo		Oriella Fallott		Crossing improvements	Complete	Safe Routes to School
		N Interstate at N Dekum				Upgrade crosswalk to high visibility		Safe Routes to School
		Willis Blvd at Courtenay, N (Safety)				Three speed bumps on N Willis between Hodge and Druid	Complete Complete	Safe Routes to School
	T00703	Grant/Jefferson HS - SRTS		Sheila Parrott		Pedestrian crossing improvements - medians, curb ramps, crosswalks, sidewalks, RFBs, etc	Various Stages (Design to Const.)	Safe Routes to School
		NE Fremont at NE 33rd Fremont: Albina - Gatenbein,				Update crosswalk Speed cushions on N Fremont	Complete	Safe Routes to School
		N				between Albina and Gantenbein	Complete	Safe Routes to School

TO	00704	Cleveland HS - SRTS	Sheila Parrott	Pedestrian crossing improvements - medians, curb ramps, crosswalks, sidewalks, RFBs, etc	Various Stages (Design to Const)	Safe Routes to School
100	.0.01	SE 72nd at SE Crystal	Onolia i arrott	Sidewalks, Ki Ds, etc	various clages (Design to const)	Outo Modies to Gollool
		Springs		Ramps, crosswalk markings	Complete	Safe Routes to School
		SE Division & 26th		Update crosswalk to high visibility	Complete	Safe Routes to School
		SE 16th & Belmont		Upgrade signs and markings	Complete	Safe Routes to School
		SE 45th at Evergreen		Curb extensions	Complete	Safe Routes to School
				Crossing improvements at SE Pine		
		Di		& 20th to include curb extensions		
		Pine at 20th, SE		and marked crosswalks.	In Design - 95%	Safe Routes to School
				Pedestrian crossing improvements		
		Henry at 46th, SE		at SE 46th & Henry.	Construction	Safe Routes to School
		Tierry at 40th, SE		Speed tables on SE Stark between	Construction	Sale Routes to School
		Stark: 16th-18th, SE		16th & 18th.	Complete	Safe Routes to School
		Claire Four Four, OL		Median island rebuild and ADA curb	Complete	Care reduce to correct
				ramp construction on SE 20th at		
		20th at Ankeny, SE		Ankeny.	In Design	Safe Routes to School
				Median island, ADA curb ramps and	_	
				marked crosswalk on SE Holgate at		
		Holgate at 29th, SE		29th.	In Design	Safe Routes to School
				Pedestrian crossing improvements -		
T 0.	20700	1:	01. 11. 12. 11	medians, curb ramps, crosswalks,	V : 0	0 1 0 1 1 0 1 1
100	00706	Lincoln High School - SRTS	Sheila Parrott	sidewalks, RFBs, etc	Various Stages (Design to Const)	Safe Routes to School
		NW Lovejoy at NW 20th		Mark crosswalk and ped signs	Commission	Safe Routes to School
		NVV Lovejoy at NVV 20th		iviark crosswark and ped signs	Complete	Sale Roules to School
		NW 18th at NW Marshall		Mark crosswalk	Complete	Safe Routes to School
		1444 Total at 1444 Marshall		Wark Grosswark	Complete	Care reduces to dericor
		NW 19th at NW Marshall		Mark crosswalk and ped signs	Complete	Safe Routes to School
		SW 45th and Julia		Pedestrian signage	Complete	Safe Routes to School
		Shattuck: Windsor Ct to		Speed cushions on SW Shattuck		
		BHH, SW		between Windsor Ct and BH Hwy	Complete	Safe Routes to School
				ADA compliant curb ramps, marked		
				crosswalk and pedestrian signage		
		25th at Quimby, NW		on NW 25th at Quimby	Pre-Construction	Safe Routes to School
		SE 92nd at SE Hawthorne		Danna ananyilia anda'anan	0	Orfo Doutes to Orbord
		SE 92nd at SE Hawthorne		Ramps, crosswalks and signage	Complete	Safe Routes to School
		47th: Hamilton to Julia, SW		Speed bumps on SW 47th between Hamilton and Julia	Complete	Safe Routes to School
		SE 169th at SE Taylor, SE		Hamilton and Julia	Complete	Sale Roules to School
		168th		Mark crosswalk and signage	Complete	Safe Routes to School
		E Burnside at NE 148th		Update crosswalk to high visibility	Complete	Safe Routes to School
				- I that tett a d g t t y		
				Pedestrian crossing improvements -		
				medians, curb ramps, crosswalks,		
T00	0708	Centennial HS - SRTS, SE	Sheila Parrott	sidewalks, RFBs, etc	Various Stages (Design to Const)	Safe Routes to School
		174th and Lafayette SE		Safe Routes to School	Pre-Construction	Safe Routes to School
				Pedestrian crossing improvements -		
To	00700	Designated IIO OPTO NE	Oh elle Dessett	medians, curb ramps, crosswalks,	Variance Otamas (Danism to Oscat)	Orfo Doutes to Orbord
100	00709	Parkrose HS - SRTS, NE	Sheila Parrott	sidewalks, RFBs, etc	Various Stages (Design to Const)	Safe Routes to School
		NE Fremont at NE 141st		Mark crosswalk, remove parking	Complete	Safe Routes to School
		TAE I TOMORE ACTAE 1413t		iviair crosswair, remove parking	Joinpiece	Sale Roules to Scribbi
		NE San Rafael at NE 132nd		Add crosswalk markings	Complete	Safe Routes to School
		NE 122nd at NE Shaver		Update crosswalk to high visibility	Complete	Safe Routes to School
		NE 131st at NE Failing		Mark crosswalk, signage	Complete	Safe Routes to School
				Post, paint curb extension and		
		NE Shaver at 131st Place		crossing	Complete	Safe Routes to School
	00707	Description III COTTO OF	Ohe'lle Day '	Pedestrian crossing improvements -	Verieur Otens (D. 1. C. 2. 1)	0-1-5
T00	00707	Reynolds HS - SRTS, SE Alder at ES Access, SE	Sheila Parrott	medians, curb ramps, crosswalks,	Various Stages (Design to Const)	Safe Routes to School Safe Routes to School
		Aluel at ES Access, SE		Determining feasibility of	In Design	Sale Routes to School
mary Attribute: Safety						

Primary Attribute: Sidewalk Infill	Division St: 82nd-174th, SE	Safety	Liz Tillstrom	01.23.2020	Outer Division Multimodal Project -	Consultant working to complete 90% PS&E Deliverable delayed due to scope refinement and coordination with Trimet's Division Transit Project	Safety
Filliary Attribute. Sidewalk Illilli							
T00597	SE 112th Ave: Market - Powell	Sidewalks	Winston Sandino		Closed critical gaps in sidewalks along SE Flavel Street, NE 102nd Avenue and SE 112th Avenue and add 16 new ADA-compliant curb ramps. By closing the gaps between existing sidewalks, the project created a full 2.25 miles of streets in East Portland with complete sidewalks on both sides on the street	Complete	Sidewalk Infill
	NE 102nd: Sandy to I-84	Sidewalks	Winston Sandino		Closed critical gaps in sidewalks along SE Flavel Street, NE 102nd Avenue and SE 112th Avenue and add 16 new ADA-compliant curb ramps. By closing the gaps between existing sidewalks, the project created a full 2.25 miles of streets in East Portland with complete sidewalks on both sides on the street	Complete	Sidewalk Infill
	SE Flavel Street: 84th - 92nd	Sidewalks	Winston Sandino		Closed critical gaps in sidewalks along SE Flavel Street, NE 102nd Avenue and SE 112th Avenue and add 16 new ADA-compliant curb	Complete	Sidewalk Infill
T00596	148th Ave: Halsey - Glisan, NE		Winston Sandino	05.17.2019	Constructing sidewalk on the east side of NE 148th from NE Halsey Street to NE Glisan.	Complete	Sidewalk Infill
T00595	Capitol Hwy: Multnomah Village - West Portland, SW	Sidewalks	Steve Szigethy	12.15.2019	side, stormwater improvements, on SW Capitol Hwy: Garden Home Rd	95% design. CMGC has been identified and process is moving forward. Anticipating Guaranteed Maximum Price by December 2019	Sidewalk Infill
Primary Attribute: Safer Shoulders/Ditcl	h Maintenance						
T00620	BES Partnership - Safer Shoulders	Safer Shoulders	Lisa Patterson	12.19.2019	pedestrian facilities on SW	Speed bumps have been constructed. Shoulder design continues. Working with fire bureau to make sure that additional components will be accepted	Shoulders Maintenan